

# Greatest Common Factor (D)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Use the prime factors of the numbers in each set to calculate the greatest common factor.

a)  $48 = 2 \times 2 \times 2 \times 2 \times 3$

b) 10

$100 = 2 \times 2 \times 5 \times 5$

80

$GCF = 2 \times 2 = 4$

c) 96

d) 72

6

48

e) 21

f) 40

42

36

g) 72

h) 100

78

96

i) 80

j) 4

4

8

# Greatest Common Factor (D) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Use the prime factors of the numbers in each set to calculate the greatest common factor.

a)  $48 = (2) \times (2) \times 2 \times 2 \times 3$

$100 = (2) \times (2) \times 5 \times 5$

$GCF = (2) \times (2) = 4$

b)  $10 = (2) \times (5)$

$80 = (2) \times 2 \times 2 \times 2 \times (5)$

$GCF = (2) \times (5) = 10$

c)  $96 = (2) \times 2 \times 2 \times 2 \times 2 \times (3)$

$6 = (2) \times (3)$

$GCF = (2) \times (3) = 6$

d)  $72 = (2) \times (2) \times (2) \times (3) \times 3$

$48 = (2) \times (2) \times (2) \times 2 \times (3)$

$GCF = (2) \times (2) \times (2) \times (3) = 24$

e)  $21 = (3) \times (7)$

$42 = 2 \times (3) \times (7)$

$GCF = (3) \times (7) = 21$

f)  $40 = (2) \times (2) \times 2 \times 5$

$36 = (2) \times (2) \times 3 \times 3$

$GCF = (2) \times (2) = 4$

g)  $72 = (2) \times 2 \times 2 \times (3) \times 3$

$78 = (2) \times (3) \times 13$

$GCF = (2) \times (3) = 6$

h)  $100 = (2) \times (2) \times 5 \times 5$

$96 = (2) \times (2) \times 2 \times 2 \times 2 \times 3$

$GCF = (2) \times (2) = 4$

i)  $80 = (2) \times (2) \times 2 \times 2 \times 5$

$4 = (2) \times (2)$

$GCF = (2) \times (2) = 4$

j)  $4 = (2) \times (2)$

$8 = (2) \times (2) \times 2$

$GCF = (2) \times (2) = 4$